

# A CHECKLIST FOR THE VASCULAR PLANTS OF PADRE ISLAND NATIONAL SEASHORE

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## ABSTRACT

The flowering plants of Padre Island National Seashore (PINS) were sampled over a two year period in three different regions of the island. Specimens from our investigation and plants reported for PINS from the literature were compiled into a checklist. The flora contains both *Flaveria brounii* and *Sporobolus tharpii* which are endemics of the western Gulf of Mexico barrier islands. *Lycium carolinianum* var. *quadrifidum*, reported only along bayshores in Texas, was found in the tidal flat community. Two hundred and fifty-nine genera and 456 species of flowering plants were identified as part of the PINS flora. These occur in 77 families with the Poaceae (95 spp.), Asteraceae (57 spp.), Fabaceae (44 spp.) and Cyperaceae (29 spp.) most common.

## RESUMEN

Se han tomado muestras de las angiospermas del parque nacional "Padre Island National Seashore" (PINS) durante un período de dos años, en tres áreas diferentes de la isla. Se hizo un catálogo de los "especímenes" de nuestra investigación y de las plantas citadas a PINS procedentes de una serie de artículos. La flora contiene tanto *Flaveria brounii* como *Sporobolus tharpii* que son endémicas de las islas de barrera del Oeste en el Golfo de México. Se ha encontrado en la comunidad de la zona mareal plana *Lycium carolinianum* var. *quadrifidum* que antes solamente se había citado a lo largo de las bahías de Texas. 259 géneros y 456 especies de angiospermas fueron identificados en la flora de PINS. Las plantas mencionadas pertenecen a 77 familias siendo las familias Poaceae (95 especies), Asteraceae (57 esp.), Fabaceae (44 esp.), y Cyperaceae (29 esp.) las más abundantes.

## INTRODUCTION

The Texas Coast is framed by sandy barrier islands which are floristically similar to other barrier islands of the Gulf of Mexico and Atlantic Coast. However, upland sites on Texas barrier islands often grade into extensive

grassland areas (Duncan & Duncan 1987). Padre Island National Seashore (PINS) encompasses most of the barrier island often referred to as northern Padre Island (Figure 1) and contains extensive grassland areas between its foredune ridges on the eastern gulf side and tidal flats bordering the western Laguna Madre. Southern Padre Island has been considered separately from northern Padre Island in terms of floristic analysis (Judd et al. 1977; Lonard et al. 1978; Lonard & Judd 1980) and is physically separated by the Mansfield Ship Channel. In contrast, Corpus Christi Pass once separated Padre Island from Mustang Island but this pass is now filled and the two islands are joined (Weise & White 1980). There have been a number of investigations involving the vegetation of upland and wetland habitats on northern Padre Island. Most recently, Nelson et al. (1997, 1999) examined four communities in regard to vegetational ecology and floristics near Big Ball Hill on PINS (Fig. 1). Drawe and Ortega (1996) examined effects of seismic survey vehicles on vegetation from five different communities on the northern one-third of the island during October 1988 as well as April and September, 1989. Also, Brown et al. (1989) compiled a vegetative history of the island summarizing early historical accounts and scientific works. Carls et al. (1991) assessed the impact of oil industry activities on three plant communities on the northern one-third of the island, and McAtee and Drawe (1975, 1980, 1981) examined the impacts of vehicular and pedestrian traffic patterns on the northern one-third of the island. However, the most comprehensive ecological treatment of PINS vegetation was done by Baccus and Horton (1979) and Baccus et al. (1977). They examined vegetation along the entire length of PINS and focused on areas with differing amounts of vehicular and pedestrian traffic. Drawe et al. (1981) and Kattner (1973) conducted comprehensive vegetation studies of five habitats about 13 km south of the PINS Ranger Station during each of six seasons from winter 1972 to spring 1973. Higginbotham (1972) analyzed vegetation data from four habitats in the northern one-third of the National Seashore, and Otten et al. (1972) investigated dune vegetation near the PINS Ranger Headquarters.

PINS was established in 1963 and since that time a considerable number of ecological investigations have been conducted, whereas only four floristic studies have been completed. Rabalais (1975) produced a list of the flora of PINS using work by Jones et al. (1961), Jones (1966), and Rechenthin and Passey (1967). A checklist incorporating data from the aforementioned ecological and floristic studies has never been published. The purpose of this investigation was to produce a checklist for PINS using data from the literature as well as our own field studies of the island. A checklist can aid researchers in identifying plants, provide data for the development of a flora or manual, and allow for biogeographic comparisons with other islands (Nelson Goetze & Lucksinger, unpublished data).

## METHODS AND MATERIALS

Areas known as Big Ball Hill, Ranger Road, and Bird Island Basin were sampled during the investigation (Fig. 1). In the Big Ball Hill region, floristic surveys were conducted in May and August through November of 1996, as well as January through March and May of 1997. The Ranger Road and Bird Island Basin regions were sampled from January through April of 1998. Sampling was done by establishing approximately 500m belt transects in each community type with the aid of a Magellan GIS navigator. Communities identified for sampling included coppice dunes, foredunes, barrier flats and secondary dunes, tidal flats (Nelson et al. 1998), and disturbed areas such as roadside ditches. Transects in each community were walked and plants in flower within sight of the transect were sampled. In a few instances, woody vegetation was sampled that was not in flower. Plants collected along the transects were identified by using Jones (1982), Correll and Johnston (1970), Gould (1975), and Gould and Box (1965). Species nomenclature was updated to Jones et al. (1997). Common names were taken from Correll and Johnston (1970) taking into account nomenclatural changes based on Jones et al. (1997). Vouchers were deposited in the herbarium at Texas A&M University-Kingsville (TAIC) and Tarleton State University (TAC) in Stephenville, Texas. In addition to our field data, information from the investigations summarized in the introduction were used in compiling the checklist. Rechenstien and Passey (1967) reported several specimens only as genera; these records were not included in our checklist. These include *Allium*, *Abutilon*, *Callirhoe*, *Desmodium*, *Penstemon*, *Polygonum*, *Rumex*, and *Tragia*. The checklist is arranged alphabetically by and within family and includes the scientific name, authority, common names (if available), herbarium, collector (if available), and collection number. Acronyms used for Texas herbaria include: C.C. Museum (Corpus Christi Museum), PINS (Padre Island National Seashore, Corpus Christi), TAC, and TAIC. When collection data are not available, the abbreviation NSA (No specimen available) is used and investigations where this species was reported are listed. Following the collection data are annotations on habit, endemism, and habitat. Plants that are woody are listed as such; plants without this designation are herbaceous in habit. When known, habitat designations of coppice dunes (CD), foredunes (FD), barrier flat (BF), and tidal flat (TF) (Nelson et al. 1997, 1999) are used.

## RESULTS AND DISCUSSION

Seventy-seven families, 259 genera, and 456 species are reported from PINS. The five most common families are Poaceae (20.8%), Asteraceae (12.5%), Fabaceae (9.6%), Cyperaceae (6.4%), and the Euphorbiaceae (4.2%). The flora of PINS primarily represents a subset of the flora of the South Texas

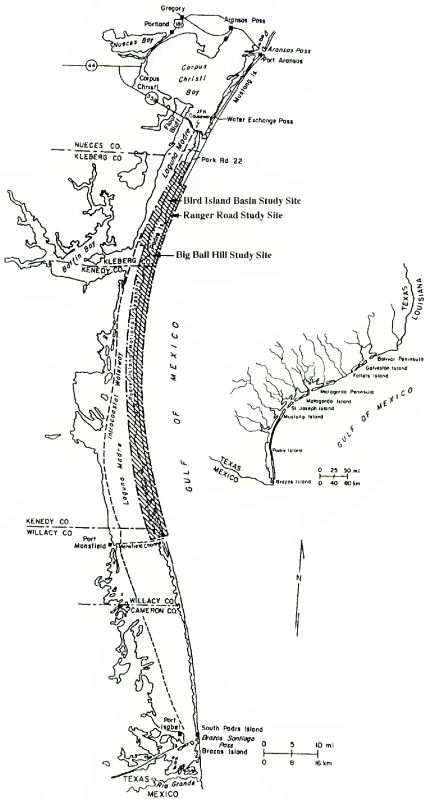


FIG. 1. Map (Weise & White 1980) indicating the location of the study sites. Hatched lines indicate the boundaries of Padre Island National Seashore. Inset shows location of Padre Island National Seashore in Texas.

mainland with the exception of *Flaveria brownii* and *Sporobolus tharpii*, which are reported as possible endemics on Padre Island and the Tamaulipan barrier islands of northern Mexico (Britton & Morton 1989). *Lycium carolinianum* var. *quadrifidum*, reported only along bayshores in Texas (Britton & Morton 1989), was found in the tidal flat community of PINS.

The lack of woody vegetation is a striking feature in regard to the PINS flora. Less than 10% of the species from PINS are considered subshrubs, shrubs, or trees. When one considers the populations of these species in comparison to the total vegetative community of the island, it is estimated that less than 1.0% of the vegetation is woody. Based on historical accounts prior to the early nineteenth century, it appears that woody forms of vegetation have always been scarce on the island (Brown et al. 1989). Britton and Morton (1989) point out that this is not typical of all barrier islands as those of the eastern Gulf and Atlantic shores often support oak- or pine-dominated woodlands. Arid climate is a likely factor in the lack of woody vegetation but is not the only factor as a number of northern Mexico barrier islands have dense stands of thorn-scrub woodland (Britton & Morton 1989). Northern Padre Island may have supported some scattered oak morces that have declined through time (Britton & Morton 1989; Brown 1989) but is primarily a grassland ecosystem. Therefore, central and southern Texas barrier islands are unique in having a herb-dominated flora and PINS is an excellent example of this type of ecosystem. PINS also has the richest flora of the four barrier island ecosystems that have been studied in Texas (Nelson, unpublished data). A forthcoming investigation will use data from this checklist to elucidate a common flora for four South Texas barrier islands, examine community similarities among the islands, and discuss unique floral components for Matagorda Island, Mustang Island, northern Padre Island, and southern Padre Island (Nelson, unpublished data).

#### CHECKLIST OF THE VASCULAR FLORA OF PADRE ISLAND NATIONAL SEASHORE

Plants that are woody are listed as such; plants without this designation are herbaceous in habit. Habitat designations: coppice dunes (CD), foredunes (FD), barrier flat (BF), and tidal flat (TF) (Nelson et al. 1997, 1999).

##### ACANTHACEAE

*Ruellia corzoi* Tharp & Barkl., PINS, Lee 2532.

##### AGAVACEAE

*Yucca constricta* Buckley, Beargrass, Spanish bayonet. PINS, Jones 756. Shrub. BF and FD.

*Yucca treculeana* Carr., Spanish dagger, Palma pita. NSA; Jones (1966), Rabalais (1975). Shrub. BF and FD.

##### AIZOACEAE

*Mollugo verticillata* L., Indian chick weed. PINS, Jones 499.

*Sesuvium maritimum* (Walt.) Britton, Sterns, & Poggenb., Sea purslane. NSA; Rechenrhin and Passey (1967).

*Sesuvium portulacastrum* (L.) L., Cenicilla. TAIC, Nelson and Odvody N293. CD.

*Sesuvium trianthemoides* Correll, Sea purslane.

TAC, Nelson, Macke, and Wilburn N697. BF.

*Sesuvium verrucosum* Raf., Sea purslane. PINS, Jones 6400.

*Trianthema portulacastrum* L., Horse purslane. PINS, Jones 498.

#### ALISMATACEAE

*Echinodorus beterni* (Spreng.) Fassett, Burhead. PINS, 1153.

#### AMARANTHACEAE

*Amaranthus arenicola* I. M. Johnston, Sandhills amaranth. PINS, 6662.

*Amaranthus blitum* L., NSA; Rabalais (1975).

*Amaranthus greggii* S. Watson, Pigweed, Amaranth. TAIC, Nelson N514. CD.

*Amaranthus polygonoides* L., Tropical amaranth. PINS, 500.

*Blutaparon vermiculare* (L.) Mears, Silver head. TAIC, Nelson and Hornsby N398. TE.

*Celosia nitida* Vahl, PINS, Whistler 2470.

*Froelichia drummondii* Moq., Snake cotton, Cottonweed. NSA; Jones (1966).

*Froelichia floridana* (Nutt.) Moq. var. *floridana*, Snake cotton, Cottonweed. PINS, 6689.

*Tidestromia lanuginosa* (Nutt.) Standl. var. *lanuginosa*, Espanta vaqueros. TAIC, Nelson N417. BF.

#### APIACEAE

*Centella asiatica* (L.) Urb., PINS, Jones 893.

*Hydrocotyle bonariensis* Commers. ex Lam., Sombrerillo. TAIC, Nelson and Perez-Johnson N318. FD and BF.

*Hydrocotyle umbellata* L., Ombligo de Venus. PINS, Jones 1390.

#### ASCLEPIDACEAE

*Asclepias emoryi* (Greene) Vail, Milkweed, Silkweed. NSA; Jones (1966).

*Asclepias oenotheroides* Cham. & Schrdl., Hierba de zizotes. TAIC, Nelson N328. FD.

*Asclepias viridiflora* Raf., Milkweed, Silkweed. NSA; Rechenhth and Passey (1967).

*Cynanchum angustifolium* Pers., PINS, 924.

#### ASTERACEAE

*Ambrosia artemisiifolia* L., Short ragweed, Altamisa. NSA; Baccus and Horton

(1979), Higginbotham (1972), Rabalais (1975).

*Ambrosia psilostachya* DC., Western ragweed. TAIC, Nelson and McKeller N352. FD, BF, and TE.

*Amblyachyris dracunculoides* (DC.) Nutt., Broomweed, Snakeweed. NSA, Rabalais (1975).

*Aphanostephus skirrbobasis* (DC.) Trel. var. *thalassius* Shinnars, Lazy daisy. TAIC, Nelson and Guerra N375. BF.

*Baccharis neglecta* Britton, Roosevelt weed, New Deal weed, Jara dulce. PINS, M. I. 7227. Shrub.

*Baccharis salicina* Torr. & A. Gray, Seep willow, Jara, Water-wally. NSA; Rechenhth and Passey (1967). Shrub.

*Borrchia frutescens* (L.) DC., Sea ox-eye daisy. TAIC, Nelson and Goodridge N365. Subshrub to shrub. BF and TE.

*Centaurea americana* Nutt., Basketflower, Thornless thistle, Cardo del valle. NSA; Rechenhth and Passey (1967).

*Cbrysopsis pilosa* Nutt., Golden aster, Camphor weed. C.C. Museum, Jones 6265.

*Cirsium horridulum* Michx. var. *elliottii* Torr. & A. Gray, Bull thistle, Yellow thistle. TAC, Nelson, Macke, and Wilburn N717. BF.

*Cirsium texanum* Buckley, Thistle, Plumed thistle. NSA; Rabalais (1975).

*Conoclinium betonicifolium* (Mill.) King & Rob., TAIC, Nelson and Martinez N383. FD, BF, and TE.

*Coryza canadensis* (L.) Cronquist, Horseweed. PINS, 7925.

*Coryza ramosissima* Cronquist, NSA; McAttee (1975).

*Coreopsis tinctoria* Nutt., Coreopsis, Tickseed. TAC, Nelson, Macke, and Wilburn N655. TE.

*Croptilon divaricatum* (Nutt.) Raf., Scratch-daisy. TAIC, CSP 44.

*Croptilon rigidifolium* (E. B. Sm.) E. B. Sm., Scratch-daisy. TAC, Nelson, Macke, and Wilburn N636. FD.

*Dysodia pentachaeta* (DC.) Robins. var. *pentachaeta*, Parralena. TAC, Nelson, Macke, and Wilburn N648. BF.

- Dyssodia tenuiloba* (DC.) Robins., Dogweed, Fetid marigold. TAIC, *Perkins* 4.
- Eclipta prostrata* (L.) L., C.C. Museum, *Jones* 6913.
- Erigeron procumbens* (Houst. ex Mill.) Nesom, Fleabane. TAIC, *Nelson* N624. BF and FD.
- Eupatorium compositifolium* Walter, Yankee weed. PINS, *Jones* 5871.
- Euthamia leptoccephala* (Torr. & A. Gray) Greene, PINS, 6264.
- Evax verna* Raf., Rabbit-robacco, Cottonrose. PINS, *Jones and Baker* 6407.
- Flaveria brownii* Powell, Longleaf flaveria. TAIC, *Nelson* N495. Endemic. BF.
- Gaillardia pulchella* Foug., Indian blanket, Firewheel. TAIC, *Nelson and Soto* N361. FD, BF, and TE.
- Gnaphalium falcata* (Lam.) Cabrera, Cudweed, Everlasting. PINS, *Jones and Baker* 6409.
- Gnaphalium pensilvanica* (Willd.) Cabrera, Cudweed, Everlasting. NSA; *Jones* (1966).
- Helenium amarum* (Raf.) H. Rock var. *amarum*, C.C. Museum, *Jones* 7927.
- Helianthus annuus* L., Common sunflower, Mirasol. PINS, 548.
- Helianthus argophyllus* Torr. & A. Gray, Silverleaf sunflower. PINS, 2516.
- Helianthus debilis* Nutt. subsp. *cucumerifolius* (Torr. & A. Gray) Heiser, Cucumberleaf sunflower. TAC, *Nelson, Macke, and Wilburn* N684. TF.
- Helianthus praecox* Engelm. & A. Gray subsp. *romyosii* (Heiser) Heiser, Sunflower PINS, 2364.
- Heterotheca subaxillaris* (Lam.) Britton & Rusby, Camphorweed. TAIC, *Nelson and Resendez* N307. CD and FD.
- Iva annua* L., Sumpweed, Marsh-elder, Pelocote. NSA; Rechenthin and Passey (1967).
- Iva imbricata* Walter, Sumpweed, Marsh elder. NSA; *Jones* (1966), *Rabalais* (1975).
- Iva texensis* R. R. Johnson, Sump-weed, Marsh-elder. TAIC, *Nelson* N483. BF and TE.
- Krigia occidentalis* Nutt., Dwarf dandelion. NSA; *Jones* (1966), *Rabalais* (1975).
- Liatris elegans* (Walter) Michx. var. *elegans*, Gay-feather, Button-snakeroot, Blazing star. PINS, 1180.
- Machaeranthera phyllcephala* (DC.) Shinnery, Camphor daisy. TAIC, *Nelson* N420. BF and TE.
- Palafoxia hookeriana* Torr. & A. Gray, PINS, 1383.
- Palafoxia rosea* (Bush) Cory var. *rosea*, NSA; *Jones* (1966).
- Palafoxia texana* DC. var. *ambigua* (Shinnery) B.L. Turner & M.I. Morris, C.C. Museum, *Jones* 6776.
- Pluchea purpurascens* (Sw.) DC., Canela. PINS, 2424.
- Ratibida peduncularis* (Torr. & A. Gray) Barnh. var. *peduncularis*, Mexican hat. PINS, 530.
- Rudbeckia hirta* L. var. *angustifolia* (Moore) Perdue, Brown-eyed Susan, Cone flower. NSA; *Jones* (1966), *Rabalais* (1975).
- Senecio riddellii* Torr. & A. Gray, Groundsel, Ragwort, Squaw-weed. TAIC, *Nelson* N502. FD.
- Solidago odora* Aiton var. *odorata*, Sweet goldenrod. PINS, 1248.
- Solidago sempervirens* L., Seaside goldenrod. PINS, *Jones* 1256.
- Sonchus asper* (L.) Hill, Achicoria dulce. NSA; *Jones* (1966).
- Sonchus oleraceus* L., Sow thistle. TAC, *Nelson, Macke, and Wilburn* N653. BF.
- Symphotrichum divaricatum* (Nutt.) Nesom, Hierba del marrano. PINS, *Lee* 2471.
- Tetragonotheca repanda* (Buckley) Small, Nerve-ray. NSA; *Rabalais* (1975).
- Thelesperma filifolium* (Hook.) A. Gray, Green-thread. PINS, *Whistler and Norfleet* 1864.
- Thelesperma nucense* B. L. Turner, Green-thread. PINS, *Jones* 1348.
- Verbesina encelioides* (Cav.) Benth. & Hook. ex A. Gray, Cowpen daisy. C.C. Museum, *Jones* 7585.
- Xanthium strumarium* L., Abrojo. NSA; *Jones* (1966), *Rabalais* (1975).

AVICENNIACEAE

- Avicennia germinans* (L.) L., Black-mangrove, Mangle blanco. PINS, 6668. Shrub.

## BATACEAE

*Batis maritima* L., Vidrillos. TAIC, *Nelson and Hornsby* N393. Subshrub. TF.

## BORAGINACEAE

*Heliotropium convolvulaceum* (Nutt.) A. Gray, NSA; Rechenhain and Passey (1967).  
*Heliotropium curassavicum* L. var. *curassavicum*, Seaside heliotrope, Cola del mico. TAC, *Nelson, Macke, and Wilburn* N681. TF.  
*Heliotropium racemosum* Rose & Standl., Turnsole, Heliotrope. PINS, 5958.

## BRASSICACEAE

*Cakile geniculata* (Robins.) Millsp., Sea rocket. TAIC, *Taylor* 398.  
*Cakile lanceolata* (Willd.) Schulz subsp. *pseudoconstricta* Rodman, TAC, *Nelson, Macke, and Wilburn* N635. TF.  
*Lepidium lasiocarpum* T. Nutt. ex Torr. & A. Gray var. *wrightii* (A. Gray) C.L. Hitchc., Pepperwort, Peppergrass. PINS, *Jones* 1378.  
*Lepidium virginicum* L., Lentejilla. TAC, *Nelson, Macke, and Wilburn* N652. BF.  
*Rorippa nasturtium-aquaticum* (L.) Hayek, Water-cress. NSA; *Baccus and Horton* (1979).

## BUDDLEJACEAE

*Polypremum procumbens* L., C.C. Museum, *Jones* 7568.

## CACTACEAE

*Opuntia engelmannii* Salm-Dyck var. *lindheimeri* (Engelm.) B.D. Parfitt & Pinkava, Prickly pear, Cholla. NSA; *Jones* (1966), *Rabalais* (1975), *Rechenhain and Passey* (1967). Shrub.  
*Opuntia humifusa* (Raf.) Raf. var. *humifusa*, Eastern prickly pear. NSA; *Jones* (1966), *Rabalais* (1975). Shrub.  
*Opuntia macrorhiza* Engelm. var. *macrorhiza*, Plains prickly pear. TAIC, *Nelson and McKeller* N355. Shrub. BF.  
*Opuntia stricta* (Haw.) Haw., Prickly pear, Cholla. NSA; *Rabalais* (1975). Shrub.

## CAMPANULACEAE

*Triodanis perfoliata* (L.) Nieuwl., Venus looking glass. NSA; *Jones* (1966), *Rabalais* (1975).

## CAPPARIDACEAE

*Polanisia erosa* (Nutt.) H.H. Iltis subsp. *breviglandulosa* H.H. Iltis, Clammy weed. NSA; *Jones* (1966).

## CARYOPHYLLACEAE

*Silene antirrhina* L., Sleepy catchfly. NSA; *Rabalais* (1975).  
*Spergularia echinosperma* (Celak.) Asch. & Graebn., Sand-spurrey. TAC, *Nelson, Macke, and Wilburn* N658. TF.  
*Spergularia marina* (L.) Griseb., Salt-marsh sand-spurrey. C.C. Museum, *Jones* 6297.

## CHENOPODIACEAE

*Atriplex matanorensis* A. Nels., Quelite cenizo. NSA; *Rabalais* (1975).  
*Atriplex pentandra* (Jacq.) Standl., Saltbush. NSA; *Rabalais* (1975).  
*Atriplex texana* S. Watson, Saltbush. NSA; *Rabalais* (1975).  
*Chenopodium album* L., Lamb's-quarters, Pigweed. NSA; *Rechenhain and Passey* (1967).  
*Chenopodium ambrosioides* L. var. *ambrosioides*, Mexican tea, Wormseed, Epazote. PINS, 513.  
*Chenopodium berlandieri* Moq., Pitseed goosefoot. C.C. Museum, *Jones* 6298.  
*Salicornia bigelovii* Torr., Glasswort, Saladilla. TAIC, *Nelson and McKeller* N353. TF.  
*Salicornia virginica* L., Glasswort, Saladilla. TAIC, *Nelson and French* N367. TF.  
*Suaeda conferta* (Small) I. M. Johnst., Sea blite, Seepweed. NSA; *Rabalais*, 1975.  
*Suaeda linearis* (Ell.) Moq., Sea blite, Seepweed. PINS, 7139.  
*Suaeda tampsicensis* (Standl.) Standl., Sea blite, Seepweed. NSA; *Rabalais* (1975).

## CISTACEAE

*Helianthemum georgianum* Chapm., Rock-rose, Frostweed. PINS, 518.  
*Lechea mucronata* Raf., Pin-weed. PINS, 6628.

## CLUSIACEAE

*Hypericum gentianoides* (L.) Britton, Stems, & Poggenb., Orange grass, Pineweed. PINS, *Lee* 2430.  
*Hypericum hypericoides* (L.) Crantz subsp.



*hypericoides*, St. Andrew's cross. PINS, Jones 721.

*Hypericum pauciflorum* Kunth, St. John's wort. PINS, O'Brien 2540.

COMMELINACEAE

*Commelina erecta* L. var. *angustifolia* (Michx.) Fern., Widow's-tears, day-flower. PINS, 521.

*Commelina erecta* L. var. *erecta*, Hierba del pollo. TAIC, Nelson and Hornsby N303. FD and BE.

*Tradescantia humilis* Rose, Spiderwort, spiderlily. PINS, 520.

CONVOLVULACEAE

*Ipomoea cordatotriloba* Dennst., Morning glory. PINS, Lee 2474.

*Ipomoea imperati* (Vahl) Griseb., Beach morning glory. TAIC, Nelson and Goodridge N289. CD and FD.

*Ipomoea pes-caprae* (L.) R. Brown subsp. *brasiliensis* (L.) v. Ooststr., Railroad vine, Goatfoot morning glory. NSA; Carls et al. (1991), Drawe et al. (1981), Jones (1966), Kattner (1973), McAtee (1975), McAtee and Drawe (1980), Rabalais (1975).

*Ipomoea sagittata* Poir., Morning glory. PINS, Lee 2391.

CUCURBITACEAE

*Citrullus lanatus* (Thunb.) Matsum. & Nakai var. *citroides* (L.H. Bailey) Mansf., Watermelon sandia. PINS, Jones 1382.

*Cucumis melo* L. var. *melo*, Muskmelon. NSA; Jones (1966), Rabalais (1975).

*Cucurbita foetidissima* Kunth, Buffalo-gourd, Calabacilla loca. NSA; Rechenhain and Passey (1967).

*Ibervillea lindheimeri* (A. Gray) Greene, Globe-berry. NSA; Jones (1966).

*Melothria pendula* L. var. *pendula*, Meloncito. C.C. Museum, Jones 7146.

CUSCUTACEAE

*Cuscuta indecora* Choisy, Pretty dodder. PINS, Jones 885.

*Cuscuta pentagona* Engelm., Dodder, Love-vine. NSA; Rabalais (1975).

CYMODOCEACEAE

*Cymodocea filiformis* (Kutz.) Correll, Manatee-grass. NSA; Rabalais (1975).

*Halodule beaudettei* (den Hartog) den Hartog, PINS, Pratt 2352.

CYPERACEAE

*Cyperus croceus* Vahl, Flatsedge. NSA; Jones (1966), Rabalais (1975).

*Cyperus ebinatus* (L.) A.W. Wood, Flatsedge. NSA; Jones (1966), Rabalais (1975).

*Cyperus esculentus* L., Yellow nut-grass. TAIC, Nelson N494. TF.

*Cyperus baspan* L., Flatsedge. PINS, Jones 1381.

*Cyperus polystachyos* Rottb., Flatsedge. PINS, Whistler and Lee 2415.

*Cyperus pseudohyrsiflorus* (Kükenrh.) R. Carter & S.D. Jones, Flatsedge. NSA; Jones (1966).

*Cyperus retroflexus* Buckley var. *retroflexus*, C.C. Museum, Jones, 6695.

*Cyperus retrorsus* Chapm., Flatsedge. TAIC, Nelson N627. FD and BE.

*Cyperus rotundus* L., Nut-grass, Tullillo. NSA; Carls et al. (1987), Carls et al. (1991).

*Cyperus squarrosus* L. var. *squarrosus*, Flatsedge. NSA; Jones (1966), Rabalais (1975), Rechenhain and Passey (1967).

*Cyperus surinamensis* Rottb., Flatsedge. TAC, Nelson, Macke, and Wilburn N641. FD and BE.

*Eleocharis albidula* Torr., Spikerush. PINS, Jones 922.

*Eleocharis atropurpurea* (Retz.) J. & C. Presl, Spikerush. PINS, Jones 7416.

*Eleocharis cellulosa* Torr., Spikerush. NSA; Rabalais (1975).

*Eleocharis flavescens* (Poir.) Urb. var. *flavescens*, Spikerush. TAC, Nelson, Macke, and Wilburn N645. BE.

*Eleocharis geniculata* (L.) J.J. Roem. & Schult., Spikerush. TAC, Nelson, Macke, and Wilburn N638. BE.

*Eleocharis interincta* (Vahl) Roem. & Schult., Spikerush. PINS, Lee 2475.

*Eleocharis minima* Kunth var. *minima*, Spikerush. C.C. Museum, Jones 7417.

*Eleocharis montevidensis* K. Kunth, Spikerush. TAIC, Nelson, N348.

*Eleocharis parvula* (Roem. & Schult.) Link ex Bluff, Nees & Schauer var. *anacheta* (Torr.) Svenson, Spikerush. PINS, Jones 923.

*Fimbristylis caroliniana* (Lam.) Fern., TAIC, Nelson N418. BE.

- Fimbristylis castanea* (Michx.) Vahl, TAIC, Nelson N419. BF.
- Fuirena scirpoidea* Michx., C.C. Museum, Fall 76D457.
- Fuirena simplex* Vahl, Umbrella-grass. PINS, O'Brien 2512.
- Lipocarpa micrantha* (Vahl) G.C. Tucker, PINS, Jones 891.
- Rhynchospora colorata* (L.) H. Pfeiff., White-topped umbrella grass. TAC, Nelson, Macke, and Wilburn N696. BF.
- Schoenoplectus erectus* (Poir.) Palla ex J. Raynal, Bullrush. PINS, Jones 6834.
- Schoenoplectus pungens* (Vahl) Palla var. *longespiciatus* (Britton) S.G. Sm., Sword-grass, Three-squared-bullrush. TAC, Nelson, Macke, and Wilburn N654. BF.
- Schoenoplectus saximontanus* (Fern.) J. Raynal, Bullrush. NSA; Jones (1966); Rechenhth and Passey (1967).
- DROSERACEAE**
- Drosera brevifolia* Pursh, Sundew. PINS, Jones 6828.
- ELATINACEAE**
- Elatine triandra* Schkuhr., Waterwort. C.C. Museum, Jones 6833.
- EUPHORBIACEAE**
- Acalypha radians* Torr., Three-seeded mercury. PINS, Jones 6560.
- Cnidioscolus texanus* (Müll. Arg.) Small, Bull nettle, Mala mujer. C.C. Museum, Jones 7559.
- Croton argyranthosus* Michx., C.C. Museum, Jones 6541.
- Croton capitatus* Michx. var. *lindheimeri* (Engelm. & A. Gray) Müll. Arg., Woolly croton, Hogwort. TAIC, Nelson, N425. BF.
- Croton coryi* Croizat, PINS, Jones 959.
- Croton glandulosus* L. var. *lindheimeri* Müll. Arg., TAIC, McAtee.
- Croton glandulosus* L. var. *pubertissimus* Croizat, PINS, Lee 2414.
- Croton glandulosus* L. var. *septentrionalis* Müll. Arg., PINS, Lee 2388.
- Croton monanthobogynus* Croton. Michx., PINS, Fall 1258.
- Croton parkvii* Croizat, Croton. C.C. Museum, Jones 6670.
- Croton punctatus* Jacq., Hierba del jabali, Beach-tea. TAIC; Nelson and Guerra. N285. Subshrub. CD and FD.
- Euphorbia bombensis* Jacq., Spurge. PINS, Baker 1132.
- Euphorbia corollata* Elliott, Spurge. PINS, Whistler 2527.
- Euphorbia corollata* L., Spurge. NSA; Carls et al. (1987).
- Euphorbia innocua* Wheeler, Spurge. NSA; Jones (1966), Rabalais (1975).
- Euphorbia maculata* L., Spurge. PINS, Jones 1287.
- Euphorbia serpens* Kunth, Hierba de la golondrina. C.C. Museum, Jones 7687.
- Phyllanthus abnormis* Baill. var. *abnormis*, Leaf-flower. PINS, Fall 1250.
- Phyllanthus polygonoides* Nutt. ex Spreng., Leaf-flower. PINS, Jones and Baker 604.
- Phyllanthus pudens* Wheeler, Leaf-flower. NSA; Rabalais (1975).
- Stillingia sylvatica* Garden ex L. subsp. *sylvatica*, Queen's delight. PINS, Jones 617.
- FABACEAE**
- Acacia mimata* (M. E. Jones) Beauch. subsp. *mimata*, Huisache. NSA; Jones (1966), Rabalais (1975), Rechenhth and Passey (1967). Shrub or tree.
- Aeschynomene viscidula* Michx., Sticky jointvetch. PINS, Jones 745.
- Astragalus brazzoensis* Buckley, Milk-vetch, Loco weed. PINS, Jones 6795.
- Astragalus leptocarpus* Torr. & A. Gray, Milk-vetch, Loco weed. PINS, Jones 7620.
- Baptisia bracteata* Nutt. var. *leucophaea* (Nutt.) Kartesz & Gandhi, Plains wild indigo. NSA; Rabalais (1975).
- Baptisia bracteata* Muhl. ex Elliott var. *laevicaulis* (A. Gray ex Canby) Isley, Plains wild indigo. TAIC, Nelson and Negrete N402. BF.
- Canavalia rosea* (Sw.) DC., Jackbean. Swordbean. PINS, Jones 919.
- Centrosema virginianum* (L.) Benth., Butterfly pea. PINS, Jones 747.
- Chamaecrista fasciculata* (Michx) Greene, Partridge pea. TAIC, Nelson N489. FD and BF.
- Clitoria mariana* L. PINS, Lee 2400.

- Crotalaria sagittalis* L., Rattlepod. PINS, Jones 4092.
- Dalea emarginata* (Torr. & A. Gray) Shinners, PINS, Nelson, Macke, and Wilburn N713. BF.
- Dalea lanata* Spreng., Woolly dalea. PINS, Jones and Baker 6562.
- Dalea obovata* (Torr. & A. Gray) Shinners, Pussyfoot. PINS, Jones 738.
- Dalea pogonathera* A. Gray, Hierba del corazon, Bearded dalea. NSA; Carls et al. (1987).
- Desmanthus virgatus* (L.) Willd. var. *depressus* (Humb. & Bonpl. ex Willd.) B.L. Turner, PINS, Jones 850.
- Erythrina herbacea* L., Coral bean, Colorín. PINS, 734.
- Galactia canescens* Benth., Hoary milkpea. PINS, Lee 2420.
- Galactia marginalis* Benth., PINS, Whistler 2524.
- Glottidium vesicaria* (Jacq.) R.M. Harper, C.C. Museum, Jones 7748.
- Indigofera miniata* Ortega var. *leptosepala* (Nutt. ex Torr. & A. Gray) B.L. Turner, Scarlet pea. NSA; Drawe et al. (1981), Higginbotham (1972), Jones (1966).
- Indigofera miniata* Ortega var. *miniata*, Scarlet pea. TAIC, Nelson and Hornsby N301. FD and BF.
- Indigofera suffruticosa* Mill., C.C. Museum, Jones 6673. Shrub.
- Leucaena leucocephala* (Lam.) de Wit, C.C. Museum, Jones 7924. Shrub or tree.
- Medicago polymorpha* L., Bur-clover. PINS, Jones 751.
- Melilotus albus* Medik., White sweet clover, Huban. PINS, Whistler and Lee 248.
- Melilotus indicus* (L.) C. All., Sour clover, Alfalfilla. TAC, Nelson, Macke, and Wilburn N692. BF.
- Mimosa latidens* (Small) B.L. Turner, Sensitive brier. PINS, Whistler 1837.
- Mimosa strigillosa* Torr. & A. Gray, Powderpuff, Vergonzosa. NSA; Jones (1966), Rabalais (1975).
- Neptunia lutea* (Leavenw.) Benth., Yellow-puff. NSA; Rechenthin and Passey (1967).
- Neptunia pubescens* Benth. var. *pubescens*, PINS, Jones and Baker 741.
- Parkinsonia aculeata* L., Retama. C.C. Museum, 79D096. Tree.
- Pediomelum rhombifolium* (Torr. & A. Gray) Rydb., C.C. Museum, 3563.
- Prosopis glandulosa* Torr. var. *glandulosa*, Honey mesquite. PINS, Jones 912. Shrub or tree.
- Rhynchosia americana* (Houst. ex Mill.) Metz, Snoutbean. TAIC, Nelson and Goodridge N321. FD and BF.
- Rhynchosia minima* (L.) DC., Snoutbean. TAIC, Nelson and Perez-Johnson N306. FD and BF.
- Rhynchosia reniformis* (Pursh) DC., Dollar-leaf. NSA; Rechenthin and Passey (1967).
- Rhynchosia senna* Gillies ex Hook. var. *texana*, Snoutbean. TAC, Nelson, Macke, and Wilburn N704. BF.
- Sesbania drummondii* (Rydb.) Cory, Rattlebush, Poison bean, Coffee bean. PINS, Jones 914. Shrub.
- Sesbania exaltata* (Raf.) Rydb. ex A. Hill, Bequilla. PINS, Tharp 233. Subshrub.
- Sophora tomentosa* L. var. *occidentalis* (L.) Isely, Yellow sophora. PINS, Tharp 40. Shrub.
- Strophostyles belvela* (L.) Ellior, Amberique bean. PINS, Pratt 2358.
- Strophostyles leiosperma* (Torr. & A. Gray) Piper, Sleek-seed bean. PINS, Jones 913.
- Stylosanthes viscusa* Sw., Pencil-flower. PINS, Lee 2383.
- Vigna luteola* (Jacq.) Benth., PINS, Jones 750.
- Zornia bracteata* J. F. Gmel., Viperina. PINS, Whistler and Lee 2401.

## FAGACEAE

- Quercus minima* (Sarg.) Small., C.C. Museum, Jones 7922. Shrub.
- Quercus virginiana* Mill. var. *fusiformis* (Small) Sarg., Oak. TAIC, Nelson N562. Shrub or tree. BF.
- Quercus virginiana* Mill. var. *virginiana*, Live oak, encino. PINS, Jones 931. Tree.

## FUMARIACEAE

- Corydalis micrantha* (Engelm. ex A. Gray) A. Gray subsp. *texensis* G. Ownbey, Scrambled eggs. NSA; Jones (1966), Rabalais (1975).

## GENTIANACEAE

- Eustoma exaltatum* (L.) Salisb. ex G. Don,  
Catchfly-gentian. PINS, Jones 883.  
*Sabatia arenicola* Greenm., Rose-gentian.  
TAIC, Nelson N625. FD and BE.  
*Sabatia campestris* Nutt., Rose-gentian.  
TAIC, Nelson N569. TF.

## GOODENIACEAE

- Scaveola plumieri* (L.) Vahl, PINS, Tanner  
1834. Subshrub.

## HYDROCHARITACEAE

- Halophila engelmannii* Asch., PINS, Lee 2448.  
*Thalassia testudinum* Banks & Soland. ex  
König, Palmas del mar, Turtle-grass.  
NSA; Rabalais (1975).

## HYDROPHYLLACEAE

- Nama hispidum* A. Gray, NSA; Jones (1966),  
Rabalais (1975).  
*Phacelia patuliflora* (Engelm. & A. Gray)  
A. Gray, NSA; Rabalais (1975).

## IRIDACEAE

- Sisyrinchium biforme* E.P. Bicknell, Blue-  
eyed grass. TAIC, Nelson and Martinez  
N386. BE.  
*Sisyrinchium sagittiferum* E. P. Bicknell, Blue-  
eyed grass. PINS, Jones 724.

## JUNCACEAE

- Juncus acuminatus* Michx., Rush, Bog-rush.  
PINS, Jones 818.  
*Juncus brachycarpus* Engelm., Rush, Bog-  
rush. NSA; Jones (1966).  
*Juncus bufonius* L. var. *bufonius*, Toad-rush.  
C.C. Museum, Jones 1829.  
*Juncus marginatus* Rostk., Rush, Bog-rush.  
PINS, TAC, Nelson, Macke, and Wilburn  
N664. TF.  
*Juncus megacephalus* M. A. Curtis, Rush, Bog-  
rush. TAC, Nelson, Macke, and Wilburn  
N699. BE.  
*Juncus roemerianus* Scheele, PINS, Whistler  
2484.  
*Juncus scirpoides* Lam., Nettlepod rush.  
TAIC, Nelson N513. BE.  
*Juncus validus* Coville var. *fasciatus* M.C.  
Johnst., Rush, Bog-rush. PINS, Jones  
6864.

## LAMIACEAE

- Monarda punctata* L. var. *lasiodonta* A. Gray,

Spotted beebalm, Horsemint. C.C. Mu-  
seum, Jones 7699.

- Scutellaria drummondii* Benth., Skullcap.  
NSA; Jones (1966), Rabalais (1975).  
*Scutellaria muriculata* Epl., Skullcap. PINS,  
Jones 6566.  
*Tencrium cubense* Jacq. var. *cubense*, Germander.  
NSA; Rechenhain and Passey (1967).

## LAURACEAE

- Persea borbonia* (L.) K. Spreng., Red bay.  
PINS, Jones 905. Shrub or tree.

## LENTIBULARIACEAE

- Utricularia subulata* L., Bladderwort. C.C.  
Museum, Jones 6827.

## LILIACEAE

- Cooperia drummondii* Herb., Cebolleta. NSA,  
Rabalais (1975).  
*Nothoscordum bivalve* (L.) Britton, Crow-  
poison. NSA; Jones (1966).

## LINACEAE

- Linum alatum* (Small) H.K.A. Winkl., Flax.  
NSA; Drawe et al. (1981), Jones (1966),  
Rabalais (1975).  
*Linum aristatum* Engelm., Flax. NSA;  
Rabalais (1975).  
*Linum imbricatum* (Raf.) Shinnars, Tufted  
flax. NSA; Rabalais (1975).

## LOASACEAE

- Mentzelia oligosperma* Nutt. ex Sims, Stick-  
leaf, Chicken thief, Pegajosa. NSA; Jones  
(1966), Rabalais (1975).

## LYTHRACEAE

- Ammannia latifolia* L., C.C. Museum, Jones  
3377.  
*Lytbrum alatum* Pursh var. *lanceolatum*  
(Elliott) Torr. & A. Gray ex Rothr.,  
Loosestrife. TAIC, Nelson N424. TF.  
*Lytbrum californicum* Torr. & A. Gray, Hierba  
del cancer. PINS, Whistler 2469.  
*Rotala ramosior* (L.) Koehne, Tooth-cup.  
PINS, Jones 6831.

## MALVACEAE

- Kosteletzkya virginica* (L.) K. Presl ex A. Gray,  
Salt marsh-mallow. C.C. Museum, Jones  
6912.  
*Malvastrum americanum* (L.) Torr., Malva  
loc. PINS, Jones 916.

*Malvastrum coromandelianum* (L.) Garcke,  
PINS, Jones 917.

*Sida ciliaris* L., Bracted sida. *Whistler and Lee* 2417.

*Sida cordifolia* L., NSA; Rabalais (1975).

*Sida lindheimeri* Engelm. & A. Gray, PINS,  
Jones 868.

*Sphaeralcea lindheimeri* A. Gray, False mallow,  
Globe mallow. PINS, *Baker* 763.

**MYRICACEAE**

*Morella cerifera* (L.) Small, Wax-myrtle,  
Candle-berry. PINS, Jones 764. Shrub.

**NAJADACEAE**

*Najas guadalupensis* (Spreng.) Magnus,  
Common water-nymph. PINS, *Hamby and Jones* 1152.

**NYCTAGINACEAE**

*Boerhavia coccinea* Mill., Scarlet spiderling.  
NSA; Rabalais (1975).

*Mirabilis albidia* (Walter) Heimerl., White  
four-o'clock. PINS, Jones 6777.

**ONAGRACEAE**

*Calylophus berlandieri* Spach subsp. *pinifolius*  
(Engelm. ex A. Gray) Towner, NSA; Jones  
(1966).

*Calylophus serrulatus* (Nutt.) P.H. Raven,  
Yellow evening primrose. TAIC, *Nelson and Perez-Johnson* N343. TF.

*Gaura longiflora* Spach, NSA; Jones (1966),  
Rabalais (1975).

*Gaura parviflora* Douglas ex Lehm., Lizard-  
tail, Velvet-leaf gaura. NSA; Jones (1966),  
Rabalais (1975).

*Ludwigia glandulosa* Walter, Cylindric-fruited  
ludwigia. NSA; Jones (1966), Rabalais  
(1975).

*Oenothera drummondii* Hook. subsp. *drum-*  
*mondii*, Beach evening primrose. TAIC,  
*Nelson and Perez-Johnson* N287. CD and  
FD.

*Oenothera grandis* (Britton) Smyth, Evening  
primrose. NSA; Jones (1966), Rabalais  
(1975).

*Oenothera laciniata* Hill, Cut-leaved evening  
primrose. TAIC; *Nelson* N566. BF and  
TF.

*Oenothera speciosa* Nutt., PINS, *Hamby* 1195.

**ORCHIDACEAE**

*Spiranthes vernalis* Engelm. & A. Gray, Spring  
ladies' tresses. TAIC, *Nelson and Soto*  
N329. FD and BF.

**OROBANCHACEAE**

*Orobancha ludoviciana* Nutt. subsp. *multiflora*  
(Nutt.) Collins, Broomrape. C.C. Mu-  
seum, Jones 2040.

**OXALIDACEAE**

*Oxalis dillenii* Jacq. subsp. *dillenii*, Wood-  
sorrel, lady's sorrel. NSA; Jones (1966),  
Rabalais (1975).

*Oxalis drummondii* A. Gray, Wood-sorrel,  
lady's sorrel. NSA; Rabalais (1975).

**PAPAVERACEAE**

*Argemone albiflora* Hornem. subsp. *texana*  
G.B. Ownbey, White prickly poppy.  
NSA; Higginbotham (1972).

*Argemone sanguinea* Greene, Red poppy.  
NSA; Jones (1966), Rabalais (1975).

**PHYTOLACCACEAE**

*Phytolacca americana* L. var. *americana*,  
Pokeweed, pokeberry. C.C. Museum,  
Jones 7657.

**PLANTAGINACEAE**

*Plantago heterophylla* Nutt., Plantain. PINS,  
Jones 6807.

*Plantago bookeriana* Fisch. & C.A. Mey.,  
Tallow weed. TAC, *Nelson, Macke, and*  
*Wilburn* N678. TF.

*Plantago virginica* L., Pale-seeded plantain.  
TAIC, *Nelson* N565. TF.

**PLUMBAGINACEAE**

*Limonium carolinianum* (Walter) Britton,  
Sea-lavender, Marsh-rosemary. TAIC,  
*Nelson* N518. TF.

**POACEAE**

*Andropogon gerardii* Vitman, Big bluestem.  
PINS, *Whistler* 2479.

*Andropogon glomeratus* (Walter) Britton,  
Sterns, & Poggenb., Bushy beardgrass.  
TAIC, *Nelson and Resendez* N381. TF.

*Andropogon ternarius* Michaux var. *ternarius*,  
Splitbeard bluestem. PINS, Jones 1312.

*Andropogon virginicus* L., Broomsedge. PINS,  
Jones 903.

- Aristida longespica* Poir. var. *geniculata* (Raf.) Fern., Three-awn grass. TAIC, *Nelson* N499. TE.
- Aristida oligantha* Michx., Prairie three-awn. NSA; Rechenhth and Passey (1967).
- Aristida purpurea* Nutt. var. *purpurea*, Purple three-awn. NSA; Rechenhth and Passey (1967).
- Arundo donax* L., Giant reed, Carrizo, Georgia cane. TAC, *Nelson, Macke, and Wilburn* N632. BE.
- Avena fatua* L., Oats. NSA; Jones (1966), Rabalais (1975).
- Botriochloa barbinodis* (Lag.) Herter var. *barbinodis*, Beardgrass. TAIC, *Guerra* 00606.
- Botriochloa ischaemum* L. var. *songarica* (Fisch. and C.A. Mey.) Celarier & Harlan, PINS, *Whistler* 2462.
- Botriochloa lagroides* (DC.) Herter subsp. *torreyana* (Steud.) Hack., Silver beardgrass, Silver bluestem. PINS, *Jones* 7684.
- Bromus catharticus* Vahl, Rescue grass. NSA; Jones (1966), Rabalais (1975).
- Cenchrus echinatus* L., Cadillo. TAC, *Nelson, Macke, and Wilburn* N706. FD and BE.
- Cenchrus spinifex* Cav., Grassbur, Coast sandbur. TAIC, *Nelson and Odvody* N315. FD and BE.
- Chloris andropogonoides* Fourn., Fingergrass. PINS, *Jones* 6732.
- Chloris canterai* Arech. var. *canterai*, Fingergrass. NSA; Jones (1966), Rabalais (1975).
- Chloris cucullata* Bisch., Hooded fingergrass, Hooded windmill grass. NSA; Jones (1966), Rabalais (1975), Rechenhth and Passey (1967).
- Chloris gayana* Kunth, Rhodes grass. PINS, *Jones* 7147.
- Chloris verticillata* Nutt., Windmill fingergrass, Tumble windmill grass. NSA; Rechenhth and Passey (1967).
- Cynodon dactylon* (L.) Pers. var. *dactylon*, Bermudagrass, Pata de gallo. PINS, *Fall* 1242.
- Dactyloctenium aegyptium* (L.) Beauv., Crowfoot. NSA; Jones (1966), Rabalais (1975).
- Dichanthium annulatum* (Forssk.) Stapf var. *annulatum*, PINS, *Whistler* 2480.
- Dichanthium aristatum* (Poir.) C.E. Hubb., C.C. Museum, *Jones* 6733.
- Digitaria arenicola* (Swall.) A. Beetle, Crabgrass. TAC, *Nelson, Macke, and Wilburn* N713. FD.
- Digitaria bicornis* (Lam.) Roem. & Schult., C.C. Museum, *Jones* 7902.
- Digitaria cognata* (Schult.) Pilg., Crabgrass. PINS, *Fall* 1253.
- Digitaria sanguinalis* (L.) Scop., Northern crabgrass. NSA; Rechenhth and Passey (1967).
- Digitaria texana* Hitchc., Crabgrass. PINS, *Fall* 1267.
- Distichlis spicata* (L.) Greene, Saltgrass. PINS, *Whistler* 2478.
- Echinochloa crus-galli* (L.) Beauv. var. *crus-galli*, Barnyard grass. NSA; Rechenhth and Passey (1967).
- Echinochloa crus-galli* (L.) Beauv. var. *crus-galli*, Barnyard grass. NSA; Rechenhth and Passey (1967).
- Echinochloa walteri* (Pursh.) A. Heller, NSA; Rechenhth and Passey (1967).
- Eragrostis barveleri* Daveau, Lovegrass. C.C. Museum, *Jones* 7582.
- Eragrostis capillaris* (L.) Nees., Lacegrass. NSA; Rabalais (1975).
- Eragrostis curtipedunculata* Buckley, Gummy lovegrass. NSA; Rechenhth and Passey (1967).
- Eragrostis intermedia* Hitchc. var. *intermedia*, Lovegrass. NSA; Rechenhth and Passey (1967).
- Eragrostis lugens* Nees., Lovegrass. TAIC, *Estrello*.
- Eragrostis pectinacea* (Michx.) Nees., Lovegrass. NSA; Rechenhth and Passey (1967).
- Eragrostis secundiflora* J. Presl subsp. *oxylepis* (Torr.) S.D. Koch, Red lovegrass. TAC, *Nelson, Macke, and Wilburn* N707. CD, FD, and BE.
- Eragrostis sessilispica* Buckley, Lovegrass. NSA; Jones (1966), Rabalais (1975), Rechenhth and Passey (1967).
- Eragrostis spectabilis* (Pursh) Steud., Lovegrass. PINS, *Jones* 1386.
- Enstachys petraea* (Sw.) Desv., TAC, *Nelson, Macke, and Wilburn* N642. BE.

- Hordeum pusillum* Nutt., Little barley. TAIC, Nelson N567. TF.
- Leersia hexandra* Sw., PINS, Whistler 2503.
- Leptochloa dubia* (Kunth) Nees., Green sprangletop. NSA; Jones (1966), Rabalais (1975).
- Leptochloa fascicularis* (Lam.) A. Gray var. *fascicularis*, Sprangletop. NSA; Baccus and Horton (1979), Jones (1966), Rabalais (1975).
- Leptochloa mucronata* (Michx.) Kunth, Red sprangletop. NSA; Rechenhuth and Passey (1967).
- Lolium perenne* L., Ryegrass. NSA; Jones (1966), Rabalais (1975).
- Monantheoblyea littoralis* Engelm., TAC, Nelson, Macke, and Wilburn N687. TF.
- Muhlenbergia capillaris* (Lam.) Trin., Gulf muhly. PINS, Whistler 2502.
- Nassella leucotricha* (Trin. & Rupr.) R. Pohl, Texas speargrass, Texas winter-grass. NSA; Jones (1966).
- Panicum aciculare* Desv. ex Poir. var. *angustifolium* (Elliot) Wipfl and S. D. Jones, PINS, Jones 7621.
- Panicum acaminatum* Sw., Panic grass. PINS, Jones 3961.
- Panicum amarum* Elliot var. *amarulum* (A. Hitchc. & Chase) P. Palmer, Beach panic. TAC, Nelson N624. CD and FD.
- Panicum amarum* Elliot var. *amarum*, Beach panic. TAIC, Nelson N493. CD and FD.
- Panicum capillarioides* Vasey. Panic grass. TAIC, Nelson and Hornsby, N309. FD.
- Panicum nodatum* Hitchc. & Chase, Panic grass. PINS, Fall 1261.
- Panicum oligosanthos* Schult., PINS, Whistler 2513.
- Panicum portoricense* Desv. ex W. Hamilt., Panic grass. TAIC, Nelson and French N369. BE.
- Panicum sphaerocarpon* Elliott, Panic grass. TAIC, Nelson N560. BE.
- Panicum virgatum* L., PINS, Whistler 2508.
- Parapholis incurva* (L.) C.E. Hubb., Sicklegrass. TAIC, Alaniz.
- Paspalum monostachyum* Vasey, Paspalum. TAIC, Nelson. N486. FD and BE.
- Paspalum plicatulum* Michx. var. *plicatum*, Brownseed paspalum. PINS, Jones 899.
- Paspalum setaceum* Michx., Paspalum. TAIC, Nelson and McKeller N299. FD and BE.
- Paspalum vaginatum* Sw., Paspalum. PINS, Jones 1881.
- Pennisetum ciliare* (L.) Link var. *ciliare*, Buffelgrass. TAIC, Nelson and Hornsby. N297. FD.
- Pennisetum glaucum* (L.) R. Br., NSA; Rechenhuth and Passey (1967).
- Phragmites australis* (Cav.) Trin. ex Steud. subsp. *australis*, Common reed. C.C. Museum, Jones 6768.
- Polypogon monspeliensis* (L.) Desf., Rabbitfoot grass. TAC, Nelson, Macke, and Wilburn N680. TF.
- Schedonnardus paniculatus* (Nutt.) W. Trel., Tumblegrass. NSA; Jones (1966), Rabalais (1975).
- Schizachyrium scoparium* (Michx.) Nash var. *littorale* (Nash) Gould, Seacoast bluestem. TAIC, Nelson and Cadena N314. FD and BE.
- Setaria leucopila* (Scribn. & Merr.) K. Schum., NSA; Jones (1966), Rabalais (1975).
- Setaria macrostachya* Kunth. NSA; Rechenhuth and Passey (1967).
- Setaria parviflora* (Poir.) Kerguelen, NSA; Jones (1966), Rabalais (1975), Rechenhuth and Passey (1967).
- Sorghastrum nutans* (L.) Nash, PINS, Whistler 2504.
- Sorghum halepense* (L.) R. Br., Johnson grass. NSA; Jones (1966), Rabalais (1975).
- Spartina alterniflora* Lois. var. *glabra* (Bigel.) Fern., Smooth cordgrass. C.C. Museum, Jones 6906.
- Spartina patens* (Air.) Muhl., Saltmeadow cordgrass. TAIC, Nelson N423. BE.
- Spartina spartinae* (Trin.) Merr. ex Hitchc., Sacahuista, Gulf cordgrass. C.C. Museum, Jones 7181.
- Sphenopholis obtusata* (Michx.) F. Lamson., Prairie wedgescale. NSA; Jones (1966), Rabalais (1975).
- Sporobolus airoides* (Torr.) Torr. subsp. *airoides*, Alkali sacaton. NSA; Jones (1966),

- Rabalais (1975), Rechenhain and Passey (1967).
- Sporobolus cryptandrus* (Torr.) A. Gray, Sand dropseed. NSA; Carls et al. (1987), Jones (1966), Rabalais (1975), Rechenhain and Passey (1967).
- Sporobolus pyramidatus* (Lam.) Hitchc., Dropseed. PINS, Pratt 2368.
- Sporobolus tharpii* Hitchc., Coastal sacaton. TAIC, Nelson N688. Endemic. CD and FD.
- Sporobolus virginicus* (L.) Kunth, Coastal dropseed. TAIC, Nelson and Hornsby N302. FD, BF, and TE.
- Trichloris pluriflora* Fourn., NSA; Jones (1966), Rabalais (1975).
- Trichoneura elegans* Swall., Silveus-grass. PINS, Jones 6719.
- Tridens congestus* (L. H. Dewey) Nash, Tridens. TAIC, Nelson N515. BF.
- Triplasis purpurea* (Walter) Chapm. var. *purpurea*, Purple sandgrass. PINS, Jones 896.
- Uniola paniculata* L., Sea oats, Espiga del mar. TAIC, Nelson and Cadena N291. CD and FD.
- Urochloa ciliatissima* (Buckley) R.D. Webster, TAC, Nelson, Macke, and Wilburn N708. FD.
- Urochloa texana* (Buckley) R.D. Webster, PINS, Whistler 2507.
- Vaseyochloa multinervosa* (Vasey) Hitchc., Texas grass. PINS, Jones 6713.
- Vulpia octiflora* (Walter) Rydb., Six-weeks fescue. TAIC, Kiddy.
- POLEMONIACEAE**
- Phlox drummondii* Hook., Phlox. TAC, Nelson, Macke, and Wilburn N630. FD.
- Phlox glabriflora* (Brand) Whitehouse subsp. *glabriflora*, Rio Grande phlox. C.C. Museum, Jones 6743.
- Phlox glabriflora* (Brand) Whitehouse subsp. *littoralis* (Cory) Wherry, Rio Grande phlox. PINS, Lee 2411.
- POLYGALACEAE**
- Polygala alba* Nutt., Polygala, Milkwort. TAIC, Nelson N626. FD and BF.
- Polygala incarnata* L., Polygala, Milkwort. TAC, Nelson, Macke, and Wilburn N637. BF.
- Polygala verticillata* L., Polygala, Milkwort. C.C. Museum, Jones 1980.
- POLYGONACEAE**
- Eriogonum longifolium* Nutt. var. *longifolium*, Wild buckwheat. NSA; McAtce (1975), Rabalais (1975).
- Eriogonum multiflorum* Benth., Wild buckwheat. TAC, Nelson, Macke, and Wilburn N628. FD and BF.
- Polygonella polygama* (Vent.) Engelm. & A. Gray, October-flower. PINS, Jones 6698.
- PORTULACACEAE**
- Portulaca oleracea* L. subsp. *oleracea*, Purslane, Verdolaga. PINS, Jones and Baker 780.
- Portulaca pilosa* L., Chisme. C.C. Museum, Jones 2339-A.
- Talinum parviflorum* Nutt., Flame-flower. C.C. Museum, Jones 2243.
- PRIMULACEAE**
- Anagallis arvensis* L., Pimpernel. TAC, Nelson, Macke, and Wilburn N651. BF.
- Anagallis minima* L., Chaffweed. C.C. Museum, Jones 6805.
- Samolus elaeagnifolius* Kunth, Water-pimpernel, Brookweed. TAIC, Nelson and Odvody N350. BF and TE.
- RUBIACEAE**
- Cephalanthus occidentalis* L. var. *californicus* Benth., Common buttonbush, Honey-balls, Globe-flowers. PINS, Jones 908. Shrub or small tree.
- Diodia teres* Walter var. *teres*, Poor Joe, Rough buttonweed. PINS, Jones 6559.
- Hedyotis nigrans* (Lam.) Fosberg, Bluets. TAC, Nelson, Macke, and Wilburn N685. BF.
- Houstonia subviscosa* (C. Wright ex A. Gray) A. Gray, Bluets. TAIC, Nelson and Martinez N335. FD.
- Oldenlandia boscii* (DC.) Chapm., Bluets. PINS, Jones 892.
- Oldenlandia uniflora* L., PINS, Jones 7441.
- Richardia brasiliensis* Gomes, PINS, Jones 7560.
- RUPPIACEAE**
- Ruppia maritima* L., Widgeon-grass. PINS, Jones and Baker 6552.
- RUTACEAE**
- Zanthoxylum clava-herculis* L., Pepperbark,



Hercules-club, Prickly ash, Tickle-tongue, Toothache tree. PINS, *Jones* 7058. Shrub or small tree.

*Zanthoxylum birsutum* Buckley, Tickle-tongue, Toothache tree, Prickly ash. PINS, *Jones* 786. Shrub or small tree.

## SALICACEAE

*Salix nigra* Marshall, Black willow, Saúz. TAIC, *Nelson* N563. Tree. BE.

## SAXIFRAGACEAE

*Lepuropetalon spatulatum* Elliott, C.C. Museum, *Jones* 6808.

## SCROPHULARIACEAE

*Agalinis fasciculata* (Elliott) Raf., C.C. Museum, *Jones* 7579.

*Agalinis heterophylla* (Nutt.) Small ex Britton, Prairie agalinis. TAIC, *Bogusch and Molby* 2402.

*Agalinis maritima* (Raf.) Raf. var. *glandiflora* (Benth.) Shinnery, Seaside gerardia, Salt marsh gerardia. TAIC, *Nelson and Negrete* N411. BE.

*Agalinis strictifolia* (Benth.) Pennell, PINS, *Lee and Whistler* 2390.

*Bacopa caroliniana* (Walter) Robins., Blue hyssop. NSA; Rechenstern and Passey (1967).

*Bacopa monnieri* (L.) Pennell, Water-hyssop. PINS, *Jones and Hamby* 1157.

*Bacopa rotundifolia* (Michx.) Wettst., PINS, *Whistler* 2467.

*Bachnera americana* L., Bluehearts. TAIC, *Nelson* N623. BE.

*Castilleja indivisa* Engelm., Indian paintbrush, Paintedcup. NSA; Rechenstern and Passey (1967).

*Lindernia dubia* (L.) Pennell var. *anagallidea* (Michx.) Cooperr., False pimpernel. PINS, *Jones* 6806.

*Maurandya antirrhiniflora* Humb. & Bonpl. ex Willd. subsp. *antirrhiniflora*, Snapdragon vine. PINS, *Jones and Baker* 790.

*Nuttallanthus texanus* (Scheele) D.A. Sutton, Texas toad-flax. NSA; Jones (1966), Rabalais (1975).

*Stemodia lanata* Ses. & Moc. ex Benth., Woolly stemodia. TAIC, *Nelson and Negrete* N409. FD and BE.

## SOLANACEAE

*Capsicum annuum* L. var. *aviculare* (Dierb.) D'Arcy & Eshbaugh, Bird pepper, Chilipequin, Chili pequín. NSA; Rabalais (1975). Subshrub or shrub.

*Lycium carolinianum* Walter var. *quadridum* (Dunal) Hitchc., Carolina wolfberry. TAIC, *Nelson* N490. Shrub. TE.

*Nicotiana glauca* Grah., Tree tobacco, Mustard tree, Rapé, Gigante, Buena moza. C.C. Museum, *Jones* 7584. Shrub or small tree.

*Physalis cinerascens* (Dunal) Hitchc. var. *spatulifolia* (Torr.) J. Sullivan, Ground cherry. TAIC, *Nelson and Martinez* N296. CD, FD, and BE.

*Solanum americanum* Mill., American nightshade, Hierba mora negra. PINS, *Jones* 7309.

*Solanum rostratum* Dunal, Buffalo bur, Kansas-thistle, Mala mujer. NSA; Rechenstern and Passey (1967).

## TAMARICACEAE

*Tamarix aphylla* (L.) Karst., Tamarisk, Salt cedar. NSA; Rabalais (1975). Tree.

*Tamarix canariensis* Willd., Tamarisk, Salt cedar. NSA; Rabalais (1975). Shrub or tree.

*Tamarix chinensis* Lour., Tamarisk, Salt cedar. C.C. Museum, *Jones* 8147. Shrub or small tree.

*Tamarix gallica* L., Tamarisco, Rompevientos. PINS, *Jones* 6551. Shrub or small tree.

*Tamarix ramosissima* Ledeb., Tamarisk, Salt cedar. PINS, *Whistler and Lee* 2395. Shrub or small tree.

## TYPHACEAE

*Typha domingensis* Pers., Tule. PINS, *Whistler and Lee* 2439.

*Typha latifolia* L., Common cat-tail, Tule espadilla. NSA; Higginbotham (1972), Rechenstern and Passey (1967).

## URTICACEAE

*Parietaria floridana* Nutt., Pellitory. NSA; McAtee (1975), Rabalais (1975).

*Parietaria pensylvanica* Muhl. ex Willd. var. *obtusata* (Rydb. ex Small) Shinnery, Hammerwort. PINS, *Jones* 795.

*Urtica chamaedryoides* Pursh, Ortiguilla. NSA; Jones (1966), Rabalais (1975).

## VERBENACEAE

*Glandularia bipinnatifida* (Nutt.) Nutt. var. *bipinnatifida*, PINS, Jones 1205.

*Lantana camara* L., West Indian lantana, Allombrilla hedionda. NSA; Rabalais (1975), Rechenthin and Passey (1966). Shrub.

*Lantana urticoides* Hayek, Texas lantana, Hierba de cristo, Calico bush. PINS, Jones 7310. Shrub.

*Phyla lanceolata* (Michx.) Greene, Northern frog-fruit. NSA; Rechenthin and Passey (1967).

*Phyla nodiflora* (L.) Greene, Common frog fruit, Cape-weed, Turkey-tangle, Mat-grass, Hierba de la Virgen María. TAIC, Nelson and Soto N320. FD and BE.

*Verbena halei* Small, Texas vervain. PINS, Jones 7063.

## VITACEAE

*Cissus incisa* Des Moul., Marine-ivy treebine, Cow-itck, Hierba del bucy. PINS, Jones 6771.

## XYRIDACEAE

*Xyris jupicai* Rich., Yellow-eyed grass. PINS, Jones 7396.

## ZYGOPHYLLACEAE

*Kallstroemia birsutissima* Vail ex Small, Carpetweed. C.C. Museum, Jones 7583.

*Tribulus terrestris* L., Caltrop, Goat head, Puncture weed, Abrojo de flor amarilla, Cadillo. NSA; Rabalais (1975).

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